## CONTENTS OF VOLUME 43

**Abdala, O. E.** See Landaburu, R. H., 417.
**Abdel-Hamid, F. M.** See Hassan, A., 1263.
**Ackman, R. G., Eaton, C. A.,** and **Jangaard, P. M.** Lipids of the fin whale (*Balaenoptera physalus*) from North Atlantic waters. I. Fatty acid composition of whole blubber and blubber sections, 1513.
Lipids of the fin whale (*Balaenoptera physalus*) from North Atlantic waters. II. Fatty acid composition of the liver lipids and gas–liquid chromatographic evidence for the occurrence of 5,8,11,14-nonadecatetraenoic acid, 1521.
**Ackman, R. G.** and **Jangaard, P. M.** The grey (Atlantic) seal; fatty acid composition of the blubber from a lactating female, 251.
**Adams, G. A.** and **Young, R.** Capsular polysaccharides of *Serratia marcescens*, 1499.
**Aebi, H.** See von Wartburg, J.-P., 889.
**Ahmad, F., Missimer, P.,** and **Moat, A. G.** Aminoimidazole ribonucleotide carboxylase. Partial purification and properties, 1723.
**Ahmad, N.** and **Morse, W. I.** Metabolites of tritiated testosterone in healthy men, 25.
**Ahmed, K.** and **Judah, J. D.** On the action of strophanthin G, 877.
**Ainsworth, L.** See Common, R. H., 539.
**Amin, A.** See Latifi, M., 459.
**Anastassiadis, P. A.** See Wood, D. F., 1839.
**Ando, K.** Ultracentrifugal analysis of yolk proteins in rainbow trout egg and their changes during development, 373.
**Annett, R. G.** and **Kosicki, G. W.** Enzymatic enolization of oxalacetic acid, 1887.
**Arthur, E. L.** See Kallos, J., 135.
**Augustyniak, J. Z.** and **Martin, W. G.** *N*-Acetyl groups in vitellenin, 291.
**Baer, E.** and **Cooper, P.** Synthesis of phosphoric acid esters of $\alpha$-methylcholine, $\beta$-methylcholine, and homocholine, 1343.
**Baer, E.** and **Sarma, G. R.** Phosphonolipids. IV. Synthesis of phosphonic acid analogues of L-$\alpha$-cephalins, 1353.
**Baumber, J.** and **Denyes, A.** Oxidation of glucose-U-$C^{14}$ and palmitate-1-$C^{14}$ by liver, kidney, and diaphragm from hamsters in cold exposure and hibernation, 747.
**Baumler, A.** See Carruthers, C., 97.
**Beck, J. C.** See Rubinstein, D., 271, 635.
**Belanger, L. F.** See Cipera, J. D., 1235.
**Belenkie, I. R.** See Hobkirk, R., 1893.
**Benjamin, D. C.** See Weimer, H. E., 755.
**Bennett, D. J.** See Creaser, E. H., 993.
**Bergh, A. K., Webb, S. J.,** and **McArthur, C. S.** A histone-like fraction bound to lipid in *Staphylococcus epidermidis*, 625.
**Bhattacharyya, K. C.** See Ghosh, J. J., 959.
**Biernacki, A.** See Whitaker, D. R., 1993.
**Billiar, R. B.** See Nishizawa, E. E., 1489.
**Bilodeau, F.** See Elliott, K. A. C., 407.
**Birmingham, M. K.** See Kraulis, I., 1471.
**Black, W.** See Hagen, P. B., 309.
**Blair, D. G. R.** and **Hall, A. D.** The metabolism of 2,6-diaminopurine by diaminopurine-sensitive and diaminopurine-resistant L-strain mouse fibroblasts, 1857.
**Blanchaer, M. C.** The competitive inhibition of the cytoplasmic L-$\alpha$-glycerophosphate dehydrogenase of skeletal muscle by L-$\alpha$-glycerophosphate, 17.
See also Stubbs, S. St. G., 463.
**Bohm, B. A.** See Glennie, C. W., 293.
**Booij, H. L.** Pyruvate-2-$^{14}$C metabolism in skin, 1011.
**Bouchard, M., Chaudhary, K. D., Loiselle, J.-M.,** and **Lemonde, A.** Free nucleotides in *Tribolium confusum* Duval, 1295.
**Boudreau, A.** and **deMan, J. M.** The mode of action of pancreatic lipase on milk fat glycerides, 1799.
**Braganca, B. M.** and **Patel, N. T.** Glycoproteins as components of the lethal factors in cobra venom (*Naja naja*), 915.
**Bragg, P. D.** Inhibition by streptomycin of tetrazolium reductase of *Escherichia coli*, 1337.
**Brink, J. J.** and **LePage, G. A.** 9-$\beta$-D-Arabinofuranosyladenine as an inhibitor of metabolism in normal and neoplastic cells, 1.
**Bristow, G. K.** and **Yamada, E. W.** Phosphodiesterase and acid phosphatase activities of avian bone marrow cells, 1319.

**Britton, A., Webster, B. R., Exrin, C.,** and **Volpe, R.** The association of $I^{131}$-labelled thyroxine and triiodothyronine with serum proteins after starch gel electrophoresis, 1477.
**Brockerhoff, H.** and **Yurkowski, M.** Simplified preparation of L-α-glyceryl phosphoryl choline, 1777.
**Brouillard, J.** and **Ouellet, L.** La phosphatase acide du germe de blé. Analyse chromatographique, 1899.
**Brown, F. C.** and **Mitchell, R. J.** The distribution and elimination of tritiated porcine ceruloplasmin in the rat, 1455.
**Brown, S. A.** Biosynthesis of the coumarins. VI. Further studies on herniarin formation in lavender, 199.
**Caldwell, I. C.** and **Drummond, G. I.** Inhibition of in vitro acetoacetate formation. An acid phosphohydrolase, 731.
**Canvin, D. T.** Analysis of some organic acids by gas–liquid chromatography, 1281.
**Carruthers, C., Heins, E.,** and **Baumler, A.** Fractionation of mouse liver microsomal esterases, 97.
**Cerelio-Santalo, R.** Respiratory control and dehydrogenase activity, 425.
**Chambers, D. A.** See Sherman, F. C., 1243.
**Chan, M. F., Stachow, C. S.,** and **Sanwal, B. D.** The allosteric nature of NAD-specific isocitric dehydrogenase from aspergilli, 111.
**Chaudhary, K. D.** See Bouchard, M., 1295.
**Chisholm, M. J.** and **Hopkins, C. Y.** *cis*-11-Docosenoic acid in cod liver oil, 130.
**Chiu, S.** See Rubinstein, D., 271.
**Cipera, J. D., Migicovsky, B. B.,** and **Belanger, L. F.** Effect of norethandrolone on selected connective tissues, 1235.
**Cohen, J. J., Myers, J., Rose, B.,** and **Goodfriend, L.** Papain-produced fragments of horse γ- and β-globulin antitoxins, 1249.
**Collier, H. B.** and **Gray, M. W.** Enzyme inhibition by derivatives of phenothiazine. VII. Inhibition of glucose-6-phosphate dehydrogenase activity of rabbit erythrocytes, 105.
Erratum: Enzyme inhibition by derivatives of phenothiazine. VII. Inhibition of glucose-6-phosphate dehydrogenase activity of rabbit erythrocytes, 623.
**Common, R. H.** See Hertelendy, F., 1379.
**Common, R. H., Ainsworth, L., Hertelendy, F.,** and **Mathur, R. S.** The estrone content of hen's urine, 539.
**Cook, F. D.** See Whitaker, D. R., 1927.
**Cook, W. H.** See Saito, Z., 1755.
**Cook, W. H.** and **Wallace, R. A.** Dissociation and subunit size of β-lipovitellin, 661.
**Cooper, P.** See Baer, E., 1343.
**Copp, M. L.** See Jelinek, P. H., 1774.
**Cornatzer, W. E.** See Newland, J., 297.
**Cossins, E. A.** See Sinha, S. K., 1531.
**Cossins, E. A.** and **Sinha, S. K.** Occurrence and properties of L-aminoacid:2-glyoxylate aminotransferase in plants, 495.
The utilization of carbon-1 compounds by plants. II. The formation and metabolism of formate by higher plant tissues, 685.
**Creaser, E. H., Bennett, D. J.,** and **Drysdale, R. B.** Studies on biosynthetic enzymes. 1. Mutant forms of histidinol dehydrogenase from *Neurospora crassa*, 993.
**Daniel, A. M.** See Rubinstein, D., 271, 635.
**Darcel, C. le Q.** See Merriman, M., 1667.
**Darlington, W. A.** and **Keay, L.** Reaction of formaldehyde and thioformaldehyde with mercuripapain, 1171.
**Datta, R. K.** See Ghosh, S. J., 959.
**Davis, E. J.** The effects of insulin and adrenalin on the metabolism of glucose and lactate by perfused guinea pig hearts, 1001.
**de Freitas, A. S. W.** and **Depocas, F.** Fatty acid and glyceride glycerol synthesis from glucose during high rates of glucose uptake in the intact rat, 437.
**DeLuca, H. F.** Variations in lipid intake and their influence on respiration and tricarboxylic acid cycle activity, 1575.
**deMan, J. M.** See Boudreau, A., 1799.
**Denyes, A.** See Baumber, J., 747.
**Depocas, F.** See de Freitas, A. S. W., 437.
**D'Iorio, A.** See Hagen, P., 1633; Kim, H. C., 769.
**Dixon, G. H.** See Schachter, H., 381.
**Drummond, G. I.** See Caldwell, I. C., 731.
**Drysdale, R. B.** See Creaser, E. H., 993.
**Eaton, C. A.** See Ackman, R. G., 1513, 1521.

**Ecobichon, D. J.** Multiple forms of human liver esterases, 595.
**Ecobichon, D. J.** and **Kalow, W.** Properties and classification of the soluble esterases of human skeletal and smooth muscle, 73.
**Eik-Nes, K. B.** See Nishizawa, E. E., 1489.
**Eisler, L.** See Kessler, J. I., 1543.
**Elliott, K. A. C., Tariq Khan, R., Bilodeau, F.,** and **Lovell, R. A.** Bound γ-aminobutyric and other amino acids in brain, 407.
**Ellis, D. B.** and **LePage, G. A.** The effect of β-xylosyl adenine on the formation of 5-phosphoribosyl-1-pyrophosphate by cell-free extracts of TA3 ascites cells, 617.
**Ellis, C.** See Britton, A., 1477.
**Falkmer, S.** See Wilson, S., 1615.
**Faulkner, P.** and **Harris, R. G.** Plaque assay of Semliki Forest virus in ascites tumor cells, 943.
**Fellman, J. H.** and **Roth, E. S.** The competitive inhibition of amine oxidase with special reference to the carcinoid syndrome, 909.
**Ford, P.** See McConnachie, P. R., 128.
**Forrester, I. T.** See Wright, D. E., 881.
**Foster, T. S.** The metabolism of mucopolysaccharides. II. The effect of adrenalectomy on enzymes involved in glucuronide synthesis and metabolism in connective tissue, 1417. See also Willmer, J. S., 1375.
**Franklin, M.** Studies on the N-demethylation of morphine and other compounds, 1053.
**Fraser, M. J.** See Ip, P. M. K., 1071.
**Freeman, H. C.** See Idler, D. R., 620.
**Fried, L. W.** See Fried, R., 533.
**Fried, R.** and **Fried, L. W.** A convenient punched-card system for literature references in neurochemistry, 533.
**Fujisawa, H.** See Yoshida, H., 841.
**Fukui, S.** and **Hochster, R. M.** On the active transport of sucrose and of 3-ketosucrose in *Agrobacterium tumefaciens*, 1129.
**Furusaka, C.** and **Sato, K.** Studies on glycine-percolated soil. I. Correlation between glycine oxidation and bacterial population, 1017.
**Gamborg, O. L.** Transamination in plants. The specificity of an aminotransferase from mung bean, 723.
**Ghosh, B. L.** See Pal, P. N., 81.
**Ghosh, J. J., Datta, R. K.,** and **Bhattacharyya, K. C.** Drug-induced changes in the cytoplasmic ribonucleoprotein constituents of brain tissue, 959.
**Gillespie, D. C.** See Tsai, C. S., 1971; Whitaker, D. R., 1927.
**Glennie, C. W.** and **Bohm, B. A.** The isolation of 2-hydroxy-1,4-naphthoquinone from *Impatiens balsamina* L. (*Balsaminaceae*), 293.
**Goodfriend, L.** See Cohen, J. J., 1249.
**Graff, G. L. A., Hudson, A. J.,** and **Strickland, K. P.** Aldolase and "aminoacyl arylamidase" in the denervated rat gastrocnemius muscle, 699.
Changes in the relative amounts of ascorbic acid and glycogen in denervated rat gastrocnemius muscle, 705.
**Grant, D. A.** See McGeer, P. L., 1367.
**Gray, M. W.** See Collier, H. B., 105, 623.
**Greenberg, L.** See Griffiths, B. W., 1915.
**Griffiths, B. W., Sparkes, B. G.,** and **Greenberg, L.** The quantitation of human serum albumin by immunoelectrophoresis, 1915.
**Grisdale, P. J.** and **Okany, A.** Phospholipids. I. Studies on the thromboplastic and anticlotting activity of phospholipids, 781.
Phospholipids. II. A correlation of chemical structure with thromboplastic activity, 1465.
**Gyorky, G.** and **Houck, J. C.** The determination of terminal protein-bound fucose, 1807.
**Haber, B.** The effect of hydroxylamine and aminooxyacetic acid on the cerebral in vitro utilization of glucose, fructose, glutamic acid, and γ-aminobutyric acid, 865.
**Hagen, P.** and **D'Iorio, A.** Studies with the ATPase of adrenal medulla, 1633.
**Hagen, P. B.** See Himms-Hagen, J., 122.
**Hagen, P. B.** and **Black, W.** Gas chromatographic method for the separation and estimation of amino acid derivatives, 309.
**Haines, D. S. M.** and **Mookerjea, S.** Impairment of triglyceride transport from the liver in choline deficiency, 507.
**Hall, A. D.** See Blair, D. G. R., 1857.
**Hannam, R. V.** See Shuster, L., 899, 1897.
**Hara, T.** See Nakazawa, S., 1091.

**Harper, A. E.** Effect of variations in protein intake on enzymes of amino acid metabolism, 1589.
**Harpur, R. P.** and **Popkin, J. S.** Osmolality of blood and intestinal contents in the pig, guinea pig, and *Ascaris lumbricoides*, 157.
**Harris, R. G.** See Faulkner, P., 943.
**Hassan, A.** See Zayed, S. M. A. D., 1257.
**Hassan, A.** and **Zayed, S. M. A. D.** Metabolism of organophosphorus insecticides. III. Fate of the methyl groups of Dipterex in vivo, 1271.
**Hassan, A., Zayed, S. M. A. D.,** and **Abdel-Hamid, F. M.** Metabolism of organophosphorus insecticides. II. Metabolism of O,O-dimethyl-2,2,2-trichloro-1-hydroxyethyl phosphonate (Dipterex) in mammalian nervous tissue and kinetics involved in its reaction with acetylcholine esterase, 1263.
**Hawkins, W. W.** and **Yaphe, W.** Carrageenan as a dietary constituent for the rat: faecal excretion, nitrogen absorption, and growth, 479.
**Heacock, R. A.** and **Hutzinger, O.** The preparation and properties of the potassium skatolyl sulfates (the "sulfatoxyskatoles"), 469.
The fluorescence spectroscopy of the hydroxyskatoles and their hydrogen sulfate esters, 1771.
**Heacock, R. A.** and **Mahon, M. E.** The oxidation of skatole with potassium persulfate, 1985.
**Heick, H. M. C.** and **Stewart, H. B.** Preparation and properties of protoplasts from *Lipomyces lipofer*, 549.
Mitochondria from *Lipomyces lipofer*, 561.
**Heins, E.** See Carruthers, C., 97.
**Heringová, A., Jirsová, V.,** and **Koldovský, O.** Postnatal development of β-glucuronidase in the jejunum and ileum of rats, 173.
**Hertelendy, F.** See Common, R. H., 539.
**Hertelendy, F., Taylor, T. G., Mathur, R. S.,** and **Common, R. H.** Isolation of estradiol-17β from hen's urine and its characterization as the crystalline 3-methyl ether, 1379.
**Himms-Hagen, J.** and **Hagen, P. B.** Preparation of glycerol dehydrogenase for enzymic estimation of glycerol, 122.
**Hobkirk, R., Nilsen, M.,** and **Belenkie, I. R.** Reversible dehydrogenation of estrogen triols by soluble preparations of rat and cat erythrocytes, 1893.
**Hochster, R. M.** See Fukui, S., 1129.
**Hopkins, C. Y.** See Chisholm, M. J., 130.
**Houck, J. C.** See Gyorky, G., 1807.
**Hudson, A. J.** See Graff, G. L. A., 699, 705.
**Hulyalkar, R. K.** See Perry, M. B., 573.
**Hutzinger, O.** See Heacock, R. A., 469, 1771.
**Idler, D. R.** and **Freeman, H. C.** A demonstration of an impaired hormone metabolism in moribund Atlantic cod (*Gadus morhua* L.), 630.
**Ip, P. M. K.** and **Fraser, M. J.** Acetylation of glycyl-tRNA, 1071.
**Itoh, T.** Effects of sodium phenylpyruvate on amino acid formation in brain, 835.
**Iyer, G. Y. N.** See Pariher, N. V., 1029.
**Jangaard, P. M.** See Ackman, R. G., 251, 1513, 1523.
**Janowitz, H. D.** See Kessler, J. I., 1543.
**Jellinck, P. H.** See Lazier, C., 281.
**Jellinck, P. H., Lazier, C.,** and **Copp, M. L.** Nature of the water-soluble estrogen metabolites formed by rat liver in vitro, 1774.
**Jirsová, V.** See Heringová, A., 173.
**Johnstone, R. M.** See Sung, C.-P., 1111.
**Jönsson, A. G.** See Martin, S. M., 1745.
**Judah, J. D.** See Ahmed, K., 877.
**Juhasz, A.** and **Richter, M.** The secondary antibody response in tissue culture. II. Differences in the course of antibody synthesis to diphtheria toxoid and rat serum albumin, 803.
**Juhasz, A.** and **Rose, B.** The secondary antibody response in tissue culture. I. Observations on prolonged antibody synthesis by lymph node fragments in media of different composition, 787.
**Jurášek, L.** See Tsai, C. S., 1971; Whitaker, D. R., 1961.
**Jurášek, L.** and **Whitaker, D. R.** Lytic enzymes of *Sorangium* sp. A comparison of some physical properties of the α- and β-lytic proteases, 1975.
**Kadkol, S. B.** See Krishnaswamy, M. A., 1879.
**Kahn, D.** See Kallos, J., 135.
**Kallos, J., Arthur, E. L., Rizok, D.,** and **Kahn, D.** A colorimetric method for serum chymotrypsin determination, 135.

**Kalow, W.** See Ecobichon, D. J., 73; Katz, A. M., 1653.
**Kapoor, M.** and **Waygood, E. R.** Orotidine-5'-phosphate pyrophosphorylase of wheat embryos, 143.
Metabolism of benzimidazole in wheat. I. Formation of benzimidazole nucleotide, 153.
Metabolism of benzimidazole in wheat. II. Formation of benzimidazole adenine dinucleotide and its products, 165.
**Karr, J.** See Nishizawa, E. E., 1489.
**Kates, M.** See Sastry, P. S., 1445.
**Kato, M.** Fatty acids in *Drosophila melanogaster*. I. The qualitative analysis of unsaturated fatty acids in *Drosophila melanogaster*, 485.
Fatty acids in *Drosophila melanogaster*. II. Separation and identification of saturated fatty acids in *Drosophila melanogaster*, 1907.
**Katz, A. M.** and **Kalow, W.** Electrophoretic characterization of human dehydrogenases, 1653.
**Keay, L.** See Darlington, W. A., 1171.
**Kenny, C. P.** and **Lees, H.** The growth of animal cells in bacteriological media, 933.
**Kessler, J. I., Eisler, L.,** and **Janowitz, H. D.** Amino acid activating enzymes in small intestinal epithelium of hamsters, rats, and guinea pigs; distribution and the effect of starvation, 1543.
**Kim, H. C., Paik, W. K.,** and **D'Iorio, A.** The effect of thalidomide and its derivatives on thyroxine-induced metamorphosis of tadpole, 769.
**King, J., Wang, D.,** and **Waygood, E. R.** Biosynthesis of nucleotides in wheat. II. Pyrimidines from $C^{14}$-labelled compounds, 237.
**Kirkley, J.** See Taylor, T. G., 451.
**Klöker, W., Ledingham, G. A.,** and **Perlin, A. S.** Polysaccharides, nucleic acids, and protein of wheat stem rust (*Puccinia graminis tritici*) urediospores, 1387.
**Koenig, V. L.** See Niyogi, S. K., 331.
**Koldovský, O.** See Heringová, A., 173.
**Kosicki, G. W.** See Annett, R. G., 1887.
**Kraulis, I.** and **Birmingham, M. K.** Inhibition of the biosynthesis of 18-hydroxy-11-deoxycorticosterone by SU-4885, 1471.
**Krause, M. O.** The incorporation of $C^{14}$-labeled precursors into the DNA, RNA, and proteins of L-cell nuclei in the presence of tritiated thymidine, 1329.
**Krishnaswamy, M. A., Kadkol, S. B.,** and **Revankar, G. D.** Nutritional evaluation of an ensiled product from fish, 1879.
**Landaburu, R. H., Abdala, O. E.,** and **Morrone, M. J.** Proteolytic enzymes derived from prothrombin, 417.
**Latifi, M., Shamloo, K. D.,** and **Amin, A.** Characteristic electrophoretic patterns of serum proteins of several species of snakes of Iran, 459.
**Lazier, C.** See Jellinck, P. H., 1774.
**Lazier, C.** and **Jellinck, P. H.** Inhibition of $^{14}$C-estrone metabolism in rat liver microsomes by 2-hydroxyestrogens and related compounds, 281.
**Lechter, L.** See Rubinstein, D., 635.
**Ledingham, G. A.** See Klöker, W., 1387.
**Lees, H.** See Kenny, C. P., 933.
**Lemonde, A.** See Bouchard, M., 1295.
**LePage, G. A.** See Brink, J. J., 1; Ellis, D. B., 617.
**Levy, S. W.** Effects of pH on the activation of rat plasminogen, 1221.
**Loiselle, J.-M.** See Bouchard, M., 1295.
**Lovell, R. A.** See Elliott, K. A. C., 407.
**Lusena, C. V.** Release of enzymes from rat liver mitochondria by freezing, 1787.
**Lyman, R. L.** See Tinoco, J., 585.
**McArthur, C. S.** See Bergh, A. K., 625.
**McConnachie, P. R.** and **Ford, P.** Histochemistry of the elasmobranch yolk stalk, 128.
**McConnell, W. B.** See Suryanarayanan, S., 91.
**McFarlane, E. S.** See Wainwright, S. D., 1813.
**McGeer, P. L., Sen, N. P.,** and **Grant, D. A.** Excretion of 4(5)-amino-5(4)-imidazolecarboxamide and formimino-L-glutamic acid in folic acid and vitamin $B_{12}$ deficient rats, 1367.
**McGregor, R. F.** See Newland, J., 297.
**McKerns, K. W.** Additional studies on the mechanism of action of ACTH, 923.
**McKinley, W. P.** See Read, S. I., 317, 1625.
**MacRae, H. F.** and **Randall, C. J.** Hydrolytic enzymes in bovine skeletal muscle. I. Starch gel electrophoretic separation and properties of soluble esterases, 1779.
**Mahon, M. E.** See Heacock, R. A., 1985.

**Majchrowicz, E.** Effects of aliphatic alcohols and aldehydes on the metabolism of potassium-stimulated rat brain cortex slices, 1041.
**Margoliash, E.** See Stewart, J. W., 1187.
**Martin, S. M.** and **Jönsson, A. G.** An extracellular protease from *Aspergillus fumigatus*, 1745.
**Martin, W. G.** See Augustyniak, J. Z., 291; Saito, Z., 1755.
**Matheson, A. T.** See Tsai, C. S., 1643.
**Matheson, A. T.** and **Tsai, C. S.** A ribosomal peptidase from *Escherichia coli* B, 323.
**Mathur, R. S.** See Common, R. H., 539; Hertelendy, F., 1379.
**Matsumura, F.** See Voss, G., 63.
**Mehlman, M. A.** See Therriault, D. G., 1437.
**Mehran, A.-R.** and **Pageau, R.** Radioformation of aspartic acid in aqueous solutions of alanine, 1359.
**Merriman, M.** Further studies of changes in plasma proteins in avian erythroblastosis. I. Two-dimensional starch gel electrophoresis, 1661.
**Merriman, M.** and **Darcel, C. le Q.** Further studies of changes in plasma proteins in avian erythroblastosis. II. Involvement of $\alpha$-lipoprotein, 1667.
**Middleton, E. J.** and **Morrison, A. B.** Vitamin absorption studies. V. A note on the utilization of pyridoxine and calcium pantothenate given orally at periodic intervals, 1889.
**Migicovsky, B. B.** See Cipera, J. D., 1235.
**Misra, U. K.** In vivo incorporation of $P^{32}$ into chicken serum phospholipids, 711.
Hypervitaminosis A and tissue fatty acids, 1885.
**Missimer, P.** See Ahmad, F., 1723.
**Mitchell, R. J.** See Brown, F. C., 1455.
**Moat, A. G.** See Ahmad, F., 1723.
**Mookerjea, S.** Studies on the rapid accumulation of triglyceride in the liver in choline deficiency, 1733.
See also Haines, D. S. M., 507.
**Moore, J. H.** See Noble, R. C., 1677.
**Morello, A.** Induction of DDT-metabolizing enzymes in microsomes of rat liver after administration of DDT, 1289.
**Morita, H.** The phenolic acids in organic soils, 1277.
**Morrison, A. B.** See Middleton, E. J., 1889.
**Morrison, A. B.** and **Munro, I. C.** Factors influencing the nutritional value of fish flour. IV. Reaction between 1,2-dichloroethane and protein, 33.
**Morrone, M. J.** See Landaburu, R. H., 417.
**Morse, W. I.** See Ahmad, N., 25.
**Moscarello, M. A.** Nucleic acid of murine encephalomyelitis virus. Physical and chemical studies, 1829.
**Munro, I. C.** See Morrison, A. B., 33.
**Murray, T. K.** See Read, S. I., 317.
**Myers, J.** See Cohen, J. J., 1249.
**Nakazawa, S., Hara, T.,** and **Ueki, K.** The effects of X-irradiation on protein metabolism of the brain, 1091.
**Nandi, D. L.** and **Waygood, E. R.** Biosynthesis of porphyrins in wheat leaves. I. Succinate:CoA ligase (ADP), 1605.
**Nardi, G. L.** See Sherman, F. C., 1243.
**Neish, A. C.** See Power, D. M., 1397.
**Newland, J., McGregor, R. F.,** and **Cornatzer, W. E.** Phosphorus metabolism in viral-induced neoplasia. II. In vivo and in vitro studies of the milk and mammary gland lipides of strains of mice susceptible to the mammary tumor virus, 297.
**Newsome, W. H.** and **Rattray, J. B. M.** The enzymatic esterification of ethanol with fatty acids, 1223.
**Nicholls, D. M.** Glycolysis in normal and nephrotic rat kidney, 1717.
**Nilsen, M.** See Hobkirk, R., 1893.
**Nishizawa, E. E., Billiar, R. B., Karr, J.,** and **Eik-Nes, K. B.** Metabolism in vitro of tritiated adrenocorticotrophic hormone, 1489.
**Niyogi, S. K.** and **Koenig, V. L.** Physicochemical properties of $\alpha$-crystallin from calf lens compared to those from ox lens, 331.
**Noble, R. C.** and **Moore, J. H.** Metabolism of the yolk phospholipids by the developing chick embryo, 1677.
**Nukada, T.** The uptake of glycine by rat brain mitochondria, 1119.
**Ohi, Y.** See Yoshida, H., 841.
**Okany, A.** See Grisdale, P. J., 781, 1465.
**Okey, R.** See Tinoco, J., 585.

**Olson, R. E.** The regulatory function of the fat-soluble vitamins, 1565.
**Ouellet, L.** See Brouillard, J., 1899.
**Pageau, R.** See Mehran, A.-R., 1359.
**Paik, W. K.** See Kim, H. C., 769.
**Pal, P. N.** and **Ghosh, B. L.** Isolation, purification, and properties of cellulases from *Aspergillus terreus* and *Penicillium variabile*, 81.
**Palmer, F. B.** and **Rossiter, R. J.** A simple procedure for the study of inositol phosphatides in cat brain slices, 671.
**Paniker, N. V.** and **Iyer, G. Y. N.** Erythrocyte catalase and detoxication of hydrogen peroxide, 1029.
**Papenberg, J.** See von Wartburg, J.-P., 889.
**Paredes, A. M.** See Sherman, F. C., 1243.
**Parmar, S. S.** and **Seth, P. K.** Selective inhibition of nicotinamide adenine dinucleotide dependent oxidation by 2-methyl-3-*o*-tolyl-4-quinazolone, 1179.
**Patel, N. T.** See Braganca, B. M., 915.
**Paterson, A. R. P.** The synthesis of extracellular ribonucleosides by ascites tumor cells in vitro, 257.
Erratum: The synthesis of extracellular ribonucleosides by ascites tumor cells in vitro, 1378.
**Paterson, A. R. P.** and **Simpson, A. I.** Enhancement of ribonucleoside synthesis in Ehrlich ascites tumor cells by arsenate and iodoacetate, 1693.
Inhibition of ribonucleoside metabolism in Ehrlich ascites tumor cells by purine analogue ribonucleosides, 1701.
The preparation of uridine-2-$C^{14}$ and inosine-8-$C^{14}$ using exchange reactions catalyzed by intact animal cells, 1996.
**Perelmutter, L., Watanabe, H.,** and **Stephenson, N. R.** A study of the thyroid protein metabolism of the thiouracil-treated rat, 399.
**Perlin, A. S.** See Klöker, W., 1387.
**Perry, M. B.** and **Hulyalkar, R. K.** The analysis of hexuronic acids in biological materials by gas–liquid partition chromatography, 573.
**Poe, R. H.** See Therriault, D. G., 1427.
**Popkin, J. S.** See Harpur, R. P., 1157.
**Power, D. M., Towers, G. H. N.,** and **Neish, A. C.** Biosynthesis of phenolic acids by certain wood-destroying Basidiomycetes, 1397.
**Proulx, P.** Amino acids in lipids of rat brain, 523.
**Purdie, J. E.** and **Smith, D. B.** The action of carboxypeptidases A and B and leucine aminopeptidase on horse hemoglobin, 49.
**Qazi, M. H.** See Zain-ul-Abedin, M., 831.
**Randall, C. J.** See MacRae, H. F., 1779.
**Rattray, J. B. M.** See Newsome, W. H., 1223.
**Read, S. I.** and **McKinley, W. P.** The effect of parathion on rat liver and kidney carboxylesterases, 1625.
**Read, S. I., Murray, T. K.,** and **McKinley, W. P.** The effect of DDT on the liver carboxylesterase and vitamin A utilization of mother rats and their young, 317.
**Revankar, G. D.** See Krishnaswamy, M. A., 1879.
**Richter, M.** See Juhasz, A., 803.
**Riklis, E.** Studies on mechanism of repair of ultraviolet-irradiated viral and bacterial DNA in vivo and in vitro, 1207.
**Rizok, D.** See Kallos, J., 135.
**Robern, H., Wang, D.,** and **Waygood, E. R.** Biosynthesis of nucleotides in wheat. I. Purines from $C^{14}$-labelled compounds, 225.
Biosynthesis of nucleotides in wheat. III. Purine and pyrimidine nucleotides from $P^{32}$-labelled phosphate, 245.
**Robinson, J. R.** See White, G. A., 1919.
**Rose, B.** See Cohen, J. J., 1249; Juhasz, A., 787.
**Rossiter, R. J.** See Palmer, F. B., 671.
**Roth, E. S.** See Fellman, J. H., 909.
**Roy, C.** See Whitaker, D. R., 1961.
**Rubenstein, B.** See Weldon, P. R., 647.
**Rubinstein, D.** See Weldon, P. R., 647.
**Rubinstein, D., Daniel, A. M., Chiu, S.,** and **Beck, J. C.** The effect of homogenization on free and esterified fatty acid pools in adipose tissue, 271.
**Rubinstein, D., Daniel, A. M., Lechter, L.,** and **Beck, J. C.** Esterification of intra- and extra-cellular free fatty acids by rat adipose tissue, 635.
**Sahagian, B. M.** Active glucose uptake by strips of guinea pig intestine; competitive inhibition by phlorhizin and phloretin, 851.

**Saito, A.** The separation of gonadotropin-inhibiting substance in the urine of children, 1711.
**Saito, Z., Martin, W. G.,** and **Cook, W. H.** Changes in the major macromolecular fractions of egg yolk during embryogenesis, 1755.
**Sanwal, B. D.** See Chan, M. F., 111.
**Sarma, G. R.** See Baer, E., 1353.
**Sastry, P. S.** and **Kates, M.** Biosynthesis of lipids in plants. I. Incorporation of orthophosphate-$^{32}$P and glycerophosphate-$^{32}$P into phosphatides of *Chlorella vulgaris* during photosynthesis, 1445.
**Sato, K.** See Furusaka, C., 1017.
**Scaife, J. F.** The effect of X-irradiation on the metabolism of ribonucleic acid in the nuclei of thymocytes and Ehrlich ascites carcinoma cells, 119.
**Schachter, H.** and **Dixon, G. H.** A comparative study of the proteins in normal meconium and in meconium from meconium ileus patients, 381.
***Scholefield, P. G.*** *The oxidation of leucine by Ehrlich ascites carcinoma cells, 977.*
*See also Uppin, B. I., 209.*
**Schucher, R.** Studies on the metabolism of insulin by pancreas in vitro. I. Degradation of exogenous insulin by calf pancreas slices, 1143.
**Sen, N. P.** See McGeer, P. L., 1367.
**Seth, P. K.** See Parmar, S. S., 1179.
**Shamloo, K. D.** See Latifi, M., 459.
**Shaw, J. G.** Binding of purines and pyrimidines by bentonite, an inhibitor of nucleases, 829.
**Sherman, F. C., Paredes, A. M., Chambers, D. A.,** and **Nardi, G. L.** Species differences and pancreatic localization of 1-aminocyclopentane-C$^{14}$-carboxylic acid, 1243.
**Shuster, L.** and **Hannam, R. V.** Changes in morphine- and chlorpromazine-N-demethylase during the development of tolerance to chlorpromazine in mice, 899.
Erratum: Changes in morphine- and chlorpromazine-N-demethylase during the development of tolerance to chlorpromazine in mice, 1897.
**Simpson, A. I.** See Paterson, A. R. P., 1693, 1701, 1996.
**Singh, U. N.** Nature of newly synthesized RNA in developing rat brain, 1083.
**Singhal, R. L.** See Weber, G., 1549.
**Sinha, S. K.** See Cossins, E. A., 495, 685.
**Sinha, S. K.** and **Cossins, E. A.** Pathways for the metabolism of glyoxylate and acetate in germinating fatty seeds, 1531.
**Smith, D. B.** Automatic spotting for paper chromatographic monitoring of effluents from columns used for peptide separations, 521.
See also Purdie, J. E., 49.
**Sourkes, T. L.** See Youdim, M. B. H., 1305.
**Sparkes, B. G.** See Griffiths, B. W., 1915.
**Spenser, I. D.** See Tiwari, H. P., 1687.
**Srivastava, S. K.** See Weber, G., 1549.
**Stachow, C. S.** See Chan, M. F., 111.
**Stephenson, N. R.** See Perelmutter, L., 399.
**Stewart, H. B.** See Heick, H. M. C., 549, 561; Tustanoff, E. R., 341, 359.
**Stewart, J. W.** and **Margoliash, E.** The primary structure of the cytochrome *c* from various organs of the hog, 1187.
**Stich, H. F.** See Webber, M. M., 811, 817.
**Strickland, K. P.** See Graff, G. L. A., 699, 705.
**Stubbs, S. St. G.** and **Blanchaer, M. C.** Glycogen phosphorylase and glycogen synthetase activity in red and white skeletal muscle of the guinea pig, 463.
**Sung, C.-P.** and **Johnstone, R. M.** Evidence for active transport of choline in rat kidney cortex slices, 1111.
**Sung, S.** Effect of X-irradiation on DNA synthesis in Ehrlich ascites carcinoma cells, 859.
**Suryanarayanan, S.** and **McConnell, W. B.** The metabolism of pelargonate-1-C$^{14}$ by wheat stem rust uredospores, 91.
**Sved, S.** The metabolism of exogenous ribonucleic acids injected into mice, 949.
**Tariq Khan, R.** See Elliott, K. A. C., 407.
**Taussig, A.** A simple method for the preparation of hyaluronic acid, 132.
Some properties of the induced enzyme cyanase, 1063.
**Taussig, M. P.** Incorporation of amino acids into chick proteins during embryonic growth, 1099.
**Taylor, T. G.** See Hertelendy, F., 1379.
**Taylor, T. G., Williams, A.,** and **Kirkley, J.** Cyclic changes in the activities of plasma acid and alkaline phosphatases during eggshell calcification in the domestic fowl, 451.
**Therriault, D. G.** and **Mehlman, M. A.** Metabolism of carnitine in cold-acclimated rats, 1437.

**Therriault, D. G.** and **Poe, R. H.** The effect of acute and chronic cold exposure on tissue lipids in the rat, 1427.
**Tinoco, J., Lyman, R. L.,** and **Okey, R.** The effect of the liver on plasma cholesterol levels in the rat, 585.
**Tiwari, H. P.** and **Spenser, I. D.** Precursors of mimosine in *Mimosa pudica*, 1687.
**Toguchi, R.** See Weimer, H. E., 755.
**Towers, G. H. N.** See Power, D. M., 1397.
**Tsai, C. S.** See Matheson, A. T., 323; Whitaker, D. R., 1961.
**Tsai, C. S.** and **Matheson, A. T.** Purification and properties of a ribosomal peptidase from *Escherichia coli* B, 1643.
**Tsai, C. S., Whitaker, D. R., Jurášek, L.,** and **Gillespie, D. C.** Lytic enzymes of *Sorangium* sp. Action of the $\alpha$- and $\beta$-lytic proteases on two bacterial mucopeptides, 1971.
***Tsai, H.*** *See Tsai, H. J., 1995.*
***Tsai, H. J., Tsai, H.,*** *and* ***Williams, G. R.*** *Carboxymethylation of cytochrome c, 1995.*
***Tsai, H. J.*** *and* ***Williams, G. R.*** *Carboxymethylation of the methionine residues of cytochrome c,* 1409.
**Tustanoff, E. R.** and **Stewart, H. B.** The effect of neutral salts on particle preparations from rat liver. I. The effect of neutral salt on pyruvate oxidation, 341.
The effect of neutral salts on particle preparations from rat liver. II. Effects of neutral salts on tricarboxylic acid cycle reactions, 359.
**Ueki, K.** See Nakazawa, S., 1091.
**Umaña, R.** The effect of the method of nuclei isolation on the average DNA content of the nucleus, 125.
**Underhill, E. W.** Biosynthesis of mustard oil glucosides. V. Formation of gluconasturtiin from L-$\gamma$-phenylbutyrine-$C^{14}$-$N^{15}$ in watercress, 179.
Biosynthesis of mustard oil glucosides. VI. Biosynthesis of glucobarbarin in *Reseda luteola* L., 189.
**Unwin, C. H.** See White, G. A., 1919.
**Uppin, B. I.** and **Scholefield, P. G.** Studies on the biosynthesis of nucleotides in Ehrlich ascites carcinoma cells in vitro, 209.
**Volpe, R.** See Britton, A., 1477.
**von Wartburg, J.-P., Papenberg, J.,** and **Aebi, H.** An atypical human alcohol dehydrogenase, 889.
**Voss, G.** and **Matsumura, F.** Biochemical studies on a modified and normal cholinesterase found in the Leverkusen strains of the two-spotted spider mite *Tetranychus urticae*, 63.
**Wainwright, S. D.** and **McFarlane, E. S.** A ribonucleic acid fraction of *Neurospora crassa* evoking development of a pseudo-tryptophan synthetase activity by extracts of mutants $td_1$, $td_2$, and $td_3$, 1813.
**Wallace, R. A.** See Cook, W. H., 661.
**Wang, D.** See King, J., 237; Robern, H., 225, 245.
**Watanabe, H.** See Perelmutter, L., 399.
**Waygood, E. R.** See Kapoor, M., 143, 153, 165; King, J., 237; Nandi, D. L., 1605; Robern, H., 225, 245.
**Webb, S. J.** See Bergh, A. K., 625.
**Webber, M. M.** Mitosis-stimulating factor in the serum of normal and carcinogen-fed rats, 530.
**Webber, M. M.** and **Stich, H. F.** Combined effects of X-irradiation and 3′-methyl-4-dimethylaminoazobenzene on liver cell population, 811.
Formation of cell colonies in X-irradiated regenerating livers of rats, 817.
**Weber, G., Singhal, R. L.,** and **Srivastava, S. K.** Effect of nutritional state on hormonal regulation of liver enzymes, 1549.
**Webster, B. R.** See Britton, A., 1477.
**Weimer, H. E., Benjamin, D. C.,** and **Toguchi, R.** The electrophoretic composition of guinea pig serum: effects of heat inactivation, decomplementation, and aging, 755.
**Weldon, P. R., Rubenstein, B.,** and **Rubinstein, D.** The direct action of $CCl_4$ on the metabolism of liver slices, 647.
**Whitaker, D. R.** Lytic enzymes of *Sorangium* sp. Isolation and enzymatic properties of the $\alpha$- and $\beta$-lytic proteases, 1935.
See also Jurášek, L., 1955; Tsai, C. S., 1971.
**Whitaker, D. R.** and **Biernacki, A.** A self-sealing inlet plunger for varying the effective length of columns for preparative chromatography, 1993.
**Whitaker, D. R., Cook, F. D.,** and **Gillespie, D. C.** Lytic enzymes of *Sorangium* sp. Some aspects of enzyme production in submerged culture, 1927.
**Whitaker, D. R., Roy, C., Tsai, C. S.,** and **Jurášek, L.** Lytic enzymes of *Sorangium* sp. A comparison of the proteolytic properties of the $\alpha$- and $\beta$-lytic proteases, 1961.

**White, G. A., Robinson, J. R.,** and **Unwin, C. H.** Preparation of specifically labeled D-fructose-$^{14}$C, 1919.
**Williams, A.** See Taylor, T. G., 451.
**Williams, G. R.** Dynamic aspects of the tricarboxylic acid cycle in isolated mitochondria, 603.
See also Tsai, H. J., 1409, 1995.
**Willmer, J. S.** and **Foster, T. S.** The influence of dehydroepiandrosterone and pregnenolone upon adaptation of hepatic glucose-6-phosphate dehydrogenase to refeeding a high-glucose diet after fasting, 1375.
**Wilson, S.** and **Falkmer, S.** Starfish insulin, 1615.
**Wood, D. F.** and **Anastassiadis, P. A.** The mucopolysaccharides of avian oviduct, egg, skin, and comb, and of porcine skin, 1839.
**Wright, D. E.** and **Forrester, I. T.** Some biochemical effects of sporidesmin, 881.
**Yamada, E. W.** Evidence for the induction of uridine and deoxyuridine phosphorylases of regenerating rat liver in vitro, 41.
See also Bristow, G. K., 1319.
**Yaphe, W.** See Hawkins, W. W., 479.
**Yoshida, H., Fujisawa, H.,** and **Ohi, Y.** Influences of protamine on the $Na^+$, $K^+$-dependent ATPase and on the active transport processes of potassium and of L-dopa into brain slices, 841.
**Youdim, M. B. H.** and **Sourkes, T. L.** The effect of heat, inhibitors, and riboflavin deficiency on monoamine oxidase, 1305.
**Young, R.** See Adams, G. A., 1499.
**Yurkowski, M.** See Brockerhoff, H., 1777.
**Zain-ul-Abedin, M.** and **Qazi, M. H.** Blood sugar levels of some reptiles found in Pakistan, 831.
**Zayed, S. M. A. D.** See Hassan, A., 1263, 1271.
**Zayed, S. M. A. D.** and **Hassan, A.** Metabolism of organophosphorus insecticides. I. Distribution and metabolism of Dipterex in adult larva of the cotton leaf worm (*Prodenia litura* F.), 1257.